



SEQUENCE LISTING

<110> Li, Henry
Chatterton, Jon E.
Ke, Ning
Wong-Staal, Flossie
Immusol, Inc.

<120> Novel siRNA Gene Libraries and Methods for Their Production and Use

<130> 016556-003110US

<140> US 10/626,512
<141> 2003-07-23

<150> US 60/398,915
<151> 2002-07-24

<160> 19

<170> PatentIn Ver. 2.1

<210> 1
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Hind III U6-265 upstream primer modified to contain a Hind III site outside the 5' end of the U6 promoter

<400> 1
tgctaagctt aaggctgggc aggaagag

28

<210> 2
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:NX U6-20 downstream primer modified to contain Not I and Xho I restriction sites at the 3' end of the U6 promoter

<400> 2
atgctcgagc ggccgcagat atataaagcc aa

32

<210> 3
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Mlu I U6-265 upstream primer modified to contain an Mlu I site outside the 5' end of the U6 promoter

<400> 3
tgctacgcgt aaggtcgggc aggaagag

28

<210> 4
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:SX-U6-20
downstream primer modified to contain Sph I and
Xho I restriction sites at the 3' end of the U6
promoter

<400> 4
atgctcgagc atgcagatat ataaagccaa

30

<210> 5
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
synthesized oligo DNA containing randomized insert
with GC caps and terminators

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<220>
<221> modified_base
<222> (20)..(39)
<223> n = g, a, c or t

<400> 5
ngccgcggac gaaaaaaaagn nnnnnnnnnn nnnnnnnnnnc tttttgacga cggcgcatg 59

<210> 6
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
synthesized universal oligo Univ-1(Not I)

<400> 6
cttttttgcg tccgc

15

<210> 7
<211> 16
<212> DNA
<213> Artificial Sequence

```

<220>
<223> Description of Artificial Sequence:chemically
      synthesized universal oligo Univ-2(Sph I)

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<400> 7
ngccgtcgtc aaaaag 16

<210> 8
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
      synthesized oligonucleotide siRNA-lucB

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<400> 8
ngccgcccac gaaaaaaaaagt gcgcgtggc tgccaaaccct ttttgcgcac ggccatg 58

<210> 9
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
      synthesized oligonucleotide siRNA-Scramble

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<400> 9
ngccgcccac gaaaaaaaaagt gcgcgtggc tgccaaaccct ttttgcgcac ggccatg 58

<210> 10
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
      NX-U6-Tet-o

<400> 10
atgctcgagc ggccgcagat atataactct atcaatgata gagtacttcc aagttacgg 60

```

```

<210> 11
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
      SX-U6-Tet-o

<400> 11
atgctcgagc atgcagatat ataactctat caatgtataga gtactttcaa gttacggt      58

<210> 12
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 5' hU6+BamHI

<400> 12
tgctggatcc aagcttaagg tcgggcagga agag                                34

<210> 13
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 3' hU6+FseI/XhoI

<400> 13
gcatgctcgaa ggcggccga tatataaagc caagaaaatcg                                40

<210> 14
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 5' mU6+BamHI/XbaI

<400> 14
tctagagaac tagtggatcc gacgcc                                26

<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 3' mU6+AscI/XhoI

```

<400> 15
gccgctcgag gcgcgccata tttatagtct caaaaacacac 40

<210> 16
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:p53 siRNA oligo

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated c

<400> 16
ncaggacgac aaaaagactc cagtgtaat ctactttta ggctttcgg 50

<210> 17
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:control
(luciferase) siRNA oligo

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated c

<400> 17
ncaggacgac aaaaagtgcg ctgctggtgc caacccttt taggctttc gg 52

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:universal oligo
Univ-1(FseI)

<400> 18
cttttgtcg tcctggccgg 20

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:universal oligo
Univ-2(AscI)

```
<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated c

<400> 19
ngcgccgaaa agcctaaaaa g
```

21

SEQUENCE LISTING

<110> Li, Henry
Chatterton, Jon E.
Ke, Ning
Wong-Staal, Flossie
Immusol, Inc.

<120> Novel siRNA Gene Libraries and Methods for Their Production and Use

<130> 016556-003110US

<140> US 10/626,512
<141> 2003-07-23

<150> US 60/398,915
<151> 2002-07-24

<160> 19

<170> PatentIn Ver. 2.1

<210> 1
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Hind III U6-265 upstream primer modified to contain a Hind III site outside the 5' end of the U6 promoter

<400> 1
tgctaagctt aaggctgggc aggaagag

28

<210> 2
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:NX U6-20 downstream primer modified to contain Not I and Xho I restriction sites at the 3' end of the U6 promoter

<400> 2
atgctcgagc ggccgcagat atataaagcc aa

32

<210> 3
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Mlu I U6-265 upstream primer modified to contain an Mlu I site outside the 5' end of the U6 promoter

<400> 3
tgctacgcgt aaggtcgggc aggaagag

28

<210> 4
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:SX-U6-20
downstream primer modified to contain Sph I and
Xho I restriction sites at the 3' end of the U6
promoter

<400> 4
atgctcgagc atgcagatat ataaagccaa

30

<210> 5
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
synthesized oligo DNA containing randomized insert
with GC caps and terminators

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<220>
<221> modified_base
<222> (20)..(39)
<223> n = g, a, c or t

<400> 5
ngccgcggac gaaaaaaagn nnnnnnnnnn nnnnnnnnnnc tttttgacga cggcgcatg 59

<210> 6
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
synthesized universal oligo Univ-1(Not I)

<400> 6
cttttttgcg tccgc

15

<210> 7
<211> 16
<212> DNA
<213> Artificial Sequence

```

<220>
<223> Description of Artificial Sequence:chemically
      synthesized universal oligo Univ-2(Sph I)

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<400> 7
ngccgtcgac aaaaag 16

<210> 8
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
      synthesized oligonucleotide siRNA-lucB

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<400> 8
ngccgcccac gaaaaaaagt gcgcgtggc tgccaaaccct ttttgacgac ggcgcatt 58

<210> 9
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:chemically
      synthesized oligonucleotide siRNA-Scramble

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated g

<400> 9
ngccgcccac gaaaaaaaggc gcgcgtggc ggattcgccct ttttgacgac ggcgcatt 58

<210> 10
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
      NX-U6-Tet-o

<400> 10
atgcgtcgagc ggccgcagat atataactct atcaatgata gagtactttc aagttacgg 60

```

```

<210> 11
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
      SX-U6-Tet-o

<400> 11
atgctcgagc atgcagatat ataactctat caatgataga gtactttcaa gttacggt      58

<210> 12
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 5' hU6+BamHI

<400> 12
tgctggatcc aagcttaagg tcgggcagga agag                         34

<210> 13
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 3' hU6+FseI/XhoI

<400> 13
gcatgctcga ggccggccga tatataaagc caagaaaatcg                         40

<210> 14
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 5' mU6+BamHI/XbaI

<400> 14
tctagagaac tagtggatcc gacgcc                                         26

<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR
      amplification primer 3' mU6+AscI/XhoI

```

<400> 15
cccgctcgag gcgcgccata tttatagtct caaaaacacac 40

<210> 16
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:p53 siRNA oligo

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated c

<400> 16
ncaggacgac aaaaagactc cagtggtaat ctactttta ggctttcgg 50

<210> 17
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:control
(luciferase) siRNA oligo

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated c

<400> 17
ncaggacgac aaaaagtgcg ctgctggtgc caacccttt taggctttc gg 52

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:universal oligo
Univ-1(FseI)

<400> 18
cttttgtcgtcgttcgg 20

<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:universal oligo
Univ-2(AscI)

<220>
<221> modified_base
<222> (1)
<223> n = 5' phosphorylated c

<400> 19
ngcgccgaaa agcctaaaaa g

21